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VIA FAX 517 273 8300

March 5, 2008

The Commissioner for Patents

United States Patent office

Washington DC

Dear Sir:

**Application #10/692,755 – Resending for Entry of Response to (5.1.2007) Non-Compliant Amendment**

On 6.1.2007 Applicant had submitted to USPTO a Response to the 5.1.2007 Non-Compliant Amendment which included revised claims. For some reason this Response has not been entered into the system and is being resent for inclusion. A separate 6.1.2007 transmittal of IDS documents by Applicant was entered into the USPTO system; however the Response was not.

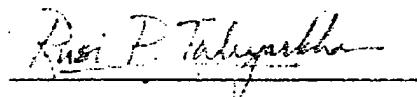
On 2.20.2008 USPTO supervisor (Group 3363) J. Keith recommended to the Applicant that Applicant transmit again the original Response of 6.1.07 to USPTO along with an explanation and proof of the USPTO fax acknowledgment receipt of 6.1.07.

Accordingly, Applicant respectfully is transmitting again the following documents:

- USPTO fax acknowledgment receipt dated 6.1.2007 which acknowledges transmittal of Applicant's Response to Office Action
- The 6.1.2007 (5-page) Response to Office Action (including cover letter, summary table citing IDS documents, and revised Claims) on Application #10/692,755.

The Applicant respectfully requests that USPTO promptly rectify the above-mentioned error, and include the 6.1.07 Response into the system so Application #10/692,755 can be processed further by Group 3363 Examiner (R. Palabrica).

Very respectfully,



Dr. Rusi P. Taleyarkhan

Inventor Applicant

USPTO

6/1/2007 1:39:42 PM PAGE 1/001 Fax Server

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## Auto-Reply Facsimile Transmission



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6 (including cover page)

**ADVISORY:** This is an automatically generated return receipt confirmation of the facsimile transmission received by the Office. Please check to make sure that the number of pages listed as received in Total Pages above matches what was intended to be sent. Applicants are advised to retain this receipt in the unlikely event that proof of this facsimile transmission is necessary. Applicants are also advised to use the certificate of facsimile transmission procedures set forth in 37 CFR 1.8(a) and (b), 37 CFR 1.6(f). Trademark Applicants, also see the Trademark Manual of Examining Procedure (TMEP) section 306 et seq.

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VIA FAX 301 320 8800 June 1, 2007

The Commissioner for Patents  
United States Patent Office  
Washington, DC  
Dear Sir:

Application 2006/017221 - Response to Non-Final Office Action and Restoration of Priority of American Invention

The Applicant respectfully requests the Office to review the patent of attorney of course and letters of the law firm of American Invention as requested in the letter of date May 29, 2007 and confirmed herewith on the attached USPTO form 82. The applicant will continue prosecution of the present application including due response to the non-final office action.

The applicant thanks the examiner for the interview on May 14, 2007, where a personal meeting (claims 34 to 47) was presented addressing the non-acceptance of claims. It is the understanding of the applicant that the new claims are acceptable to the examiner, particularly in light of the extremely high temperatures noted in the disclosure and discussed in the 5/24/07 interview (e.g., Fig. 6). Furthermore, it is the understanding of the applicant that these claims will be entered. A reply corrected for errors is attached.

As requested by the examiner, the applicant respectfully will submit an IDS under separate cover (reference is made). Therein listed three independent verifications (Durr et al., 2004; Fortin et al., 2006; LeTourneau University, Texas Tech University, and the Battelle Report to Purdue University, 2006) of the present invention. The previous verifications and these verifications all use non-invasive methods (e.g., infrared) to detect potential damage to the material in real time. In addition, the applicant submits a paper published in the premier journal *Physical Review E*, Takeyarkhan et al., 2004 (see for example, Fig. 1c) which demonstrates that thermodynamic fusion reactions emitting 2.5 MeV fusion neutrons are consistent with application-induced noncollective nuclear light flashes implying hot, compressed conditions as in the experimental conditions of the present invention.

As also discussed with the examiner, a theoretical foundation has also been developed which takes into account all relevant physics of the situation. It has passed peer review and validation by worldwide experts and published in the premier journal *Physical Review E* (Takeyarkhan et al., 2005). This theoretical foundation when applied specifically to the method of the present invention also confirms thermodynamic conditions (see Fig. 13 of

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